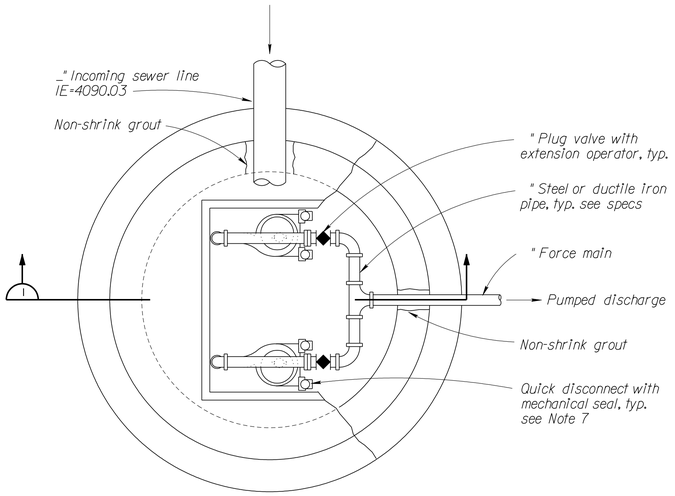
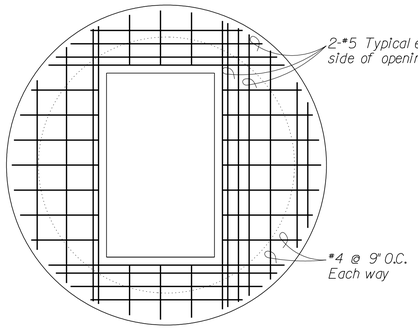
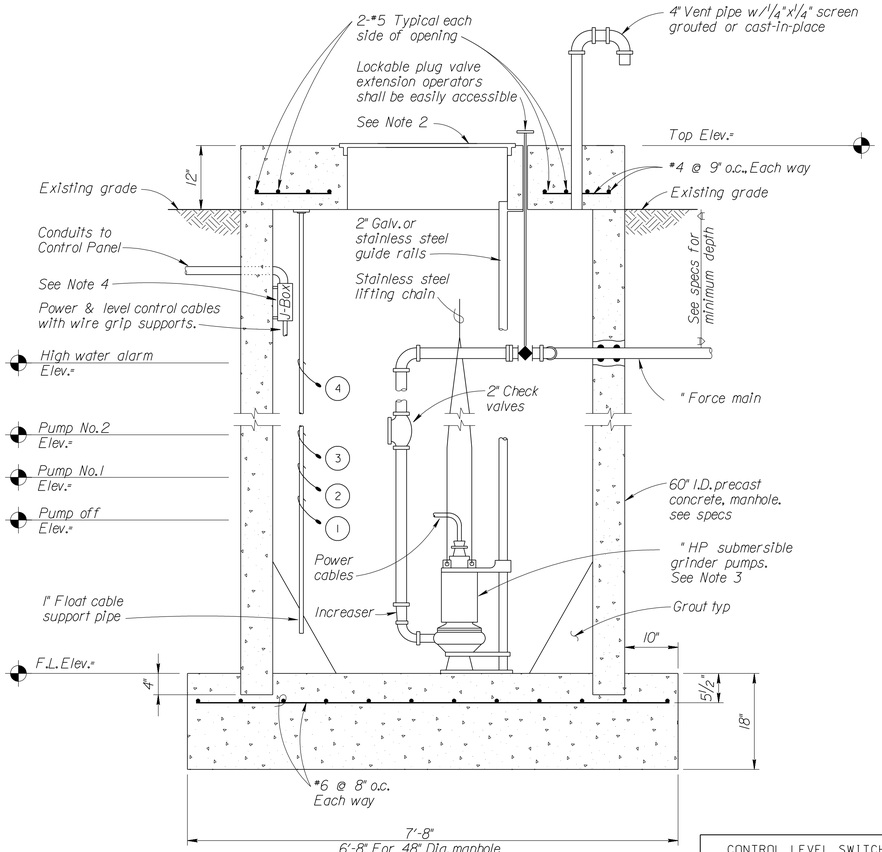


LIFT STATION PLAN
NO SCALE



LIFT STATION TOP PLAN
WET WELL
NO SCALE



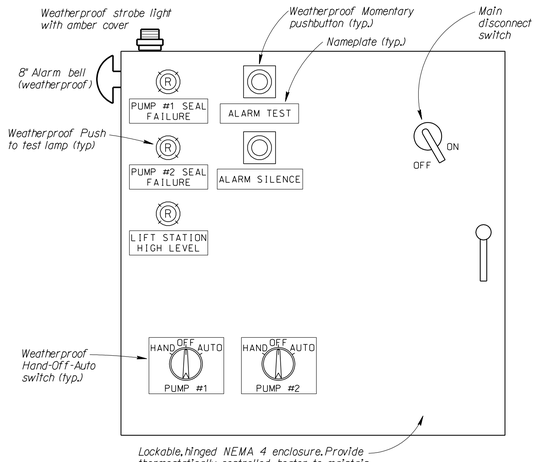
LIFT STATION SECTION (1)
SCALE: 1 INCH = 1 FOOT
12" 6" 0 1'

NOTE:

DETAIL IS FOR PURPOSES OF ILLUSTRATING WHAT EQUIPMENT IS REQUIRED IN THE LIFT STATION. VARIATIONS OF LAYOUT AND MATERIAL ARE ALLOWED SUBJECT TO APPROVAL. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CONTROL LEVEL SWITCHES	
1	PUMPS TURN OFF
2	PUMP No. 1 (OR 2) STARTS
3	PUMP No. 2 (OR 1) STARTS
4	HIGH WATER ALARM

NOTE:
AT LEVEL ONE (1), THE PUMPS WILL ALTERNATE AUTOMATICALLY.



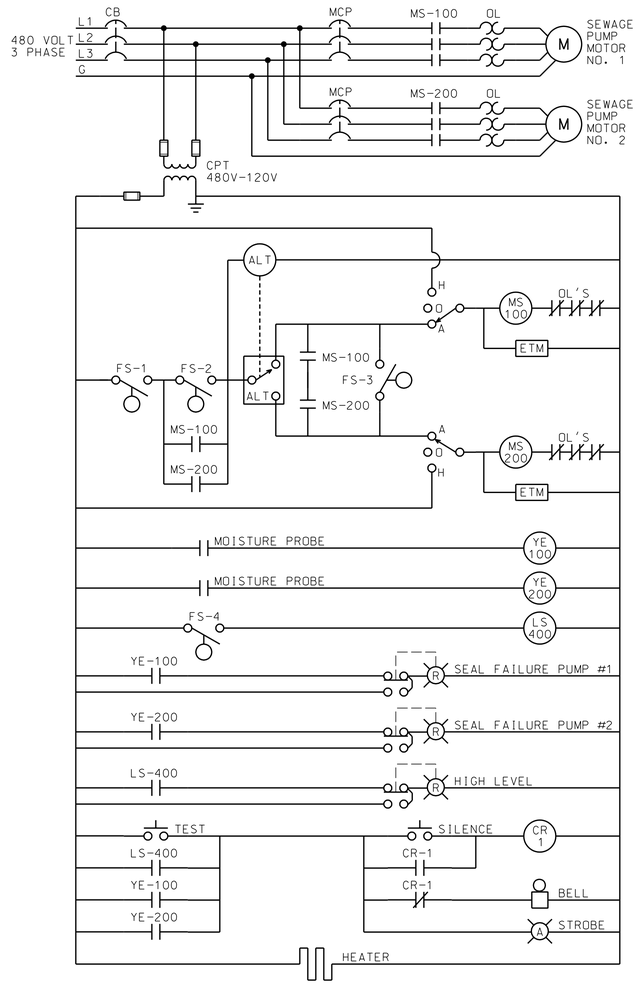
PROVIDE MODULAR STEEL SUPPORT STRUCTURE WITH:
1. Fymin = 33 KSI
2. THICKNESS = 0.105 INCHES
3. VERTICAL POST - "UNISTRUT P1001" OR EQUAL
   Imin = 0.93 INCHES^4
   Smin = 0.57 INCHES^3
4. HORTIZONTAL CHANNEL - "UNISTRUT P1000" OR EQUAL
   Imin = 0.18 INCHES^4
   Smin = 0.20 INCHES^3
5. GALVANIZED PER ASTM A525 CLASS 690

ENCLOSURE SHALL BE 3'-0" ABOVE FINISHED GRADE. THE VERTICAL POST SHALL BE EMBEDDED, BELOW GROUND IN CONCRETE, 1'-0" DIAMETER BY 2'-6" DEEP.

LIFT STATION CONTROL PANEL DIAGRAM
NO SCALE

NOTES:

1. INSTALLATION OF PUMPS, MOTORS, AND ASSOCIATED HARDWARE, INCLUDING LIFTING CHAIN, CABLES, PUMP MOUNTS, SAFTY CHAIN HOOKS AND PIPE GUIDES SHALL BE DONE IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. OPENING SIZE SHALL BE AS SPECIFIED BY MANUFACTURER, EACH OPENING SHALL HAVE TWO (2) COVERS EQUIPPED WITH HASPS SO THEY MAY BE PADLOCKED CLOSED.
3. PUMPS WILL BE POSITIONED IN MANHOLE AS RECOMMENDED BY THE MANUFACTURER.
4. WET WELL IS A CLASS I, DIVISION 1, GROUP C & D AREA. PROVIDE SEAL-OFFS PER NATIONAL ELECTRICAL CODE.
5. PUMPS ARE RATED AT ?? GPM AT ?? FEET TDH.
6. PIPE GASKETS SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS.
7. QUICK DISCONNECTION AS PER MANUFACTURER'S STANDARD PRODUCTS. CHECK VALVE SHALL BE REMOVABLE WITH PUMP ASSEMBLE.



LIFT STATION CONTROL CIRCUIT DIAGRAM

LEGEND	
CB	CIRCUIT BREAKER
OL	OVERLOAD RELAY
MCP	MOTOR CIRCUIT PROTECTOR
CPT	CONTROL POWER TRANSFORMER
ETM	ELAPSED TIME METER
ALT	ALTERNATOR

$$ – THINK VALUE ENGINEERING – $$

Revisions

Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by:
Drawn by:
Checked by:
Reviewed by:
Submitted by:
Chief: Section

SITE NAME — SITE LOCATION

OMAHA DISTRICT DESIGN GUIDE

LIFTSTATION DETAILS

Plot Scale Ratio:
Design File:
Date: JUNE 2002
Spec. No.: DACA 45
Drawing Code: X
Contract No.: DACA 45
Sheet reference number: U4.08

COMPUTER AIDED DESIGN & DRAFTING

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